

## AMENDMENTS TO THE CLAIMS

1-6. (Canceled).

7. (Currently Amended) A method for matching partner-seeking ~~individuals~~ humans in a dating service, comprising

determining the MHC Class I and Class II genetic profiles of a plurality of said ~~individuals~~humans, thereby providing a plurality of profiled individuals;

performing a plurality of comparisons between said profiles for a plurality of said profiled ~~individuals~~humans, wherein a greater level of heterozygosity between a pair of profiled ~~individuals~~humans is indicative of a greater level of compatibility;

matching said profiled ~~individuals~~humans based on said level of heterozygosity, thereby providing profile-matched ~~individuals~~humans; and

physically partnering at least one pair of said profile-matched ~~individuals~~humans into a social or potentially sexual group in a dating service.

8. (Currently Amended) The method of claim 7, wherein said comparisons are performed for all of said ~~individuals~~humans.

9. (Previously presented) The method of claim 7, wherein said profiles include the HLA-A and HLA-B loci in the Class I region, and the DRB1 locus in the Class II region.

10. (Currently Amended) The method of claim 7, wherein compatibility of said ~~individual~~humans is also determined using other processes.

11 and 12. (Canceled).

13. (Currently Amended) The method of claim 7, wherein said determining comprises typing sample genetic material obtained from said plurality of ~~individual~~humans to determine said ~~individuals~~<sup>2</sup> humans' MHC Class I and Class II profiles.

14. (Currently Amended) The method of claim 7, further comprising obtaining sample genetic material from said plurality of ~~individual~~humans, wherein said sample genetic material is then typed to determine said ~~individual~~humans' MHC Class I and Class II profiles.

15. (Currently Amended) The method of claim 7, wherein at least one pair of said profile-matched ~~individual~~humans is physically partnered into a social group in a dating service.

16. (New) The method of claim 7, wherein at least one pair of said profile-matched ~~individual~~humans is physically partnered into a potentially sexual group in a dating service.